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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/572,089	03/16/2006	Jean-Yves Le Naour	PF030146	9287	
	7590 03/15/2007 KS, VICE PRESIDENT	EXAMINER			
THOMSON LI	CENSING LLC	SAFAIPOUR, BOBBAK			
PATENT OPE PO BOX 5312	RATIONS ·	ART UNIT .	PAPER NUMBER		
PRINCETON,	NJ 08543-5312		2618		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS		03/15/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

						
Office Action Summary		Application	n No.	Applicant(s)		
		10/572,08	9	LE NAOUR ET AL.		
		Examiner		Art Unit		
		Bobbak Sa		2618		
Period fo	The MAILING DATE of this commu or Reply	nication appears on the	cover sheet wit	th the correspondence address		
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE IN ISSUE OF THE INSURE OF THE I	MAILING DATE OF TH is of 37 CFR 1.136(a). In no eve munication. statutory period will apply and will y will, by statute, cause the appl	IIS COMMUNIC int, however, may a re Il expire SIX (6) MON ication to become AB	CATION. Exply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status						
1)[\]	Responsive to communication(s) fil	led on 16 March 2006		,		
2a)□	This action is FINAL .	2b)⊠ This action is n	on-final			
•	Since this application is in condition	• —		ers prosecution as to the merits is		
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	closed in accordance with the prac-	noo anaor ex parto qu	ayro, 1000 O.D.	. 11, 400 0.0. 2.0.		
Dispositi	on of Claims					
4)🛛	Claim(s) 1-6 is/are pending in the a	pplication.				
	4a) Of the above claim(s) is/s	are withdrawn from cor	nsideration.			
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-6 is/are rejected.					
7)						
8)[Claim(s) are subject to restri	iction and/or election re	equirement.			
Applicati	on Papers					
۵۱۲	The specification is objected to by the	he Examiner				
,	The drawing(s) filed on <u>16 March 20</u>		ted or b)□ obi∉	ected to by the Examiner.		
لطارفا	Applicant may not request that any obje					
	Replacement drawing sheet(s) including)	
11)	The oath or declaration is objected	·			,.	
• • • • • • • • • • • • • • • • • • • •	The bath of declaration is objected	to by the Examinor. Ive	to the attached	- Ciliac / total or form 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
Priority (ınder 35 U.S.C. § 119					
• —	Acknowledgment is made of a clain ⊠ All b)□ Some * c)□ None of:	n for foreign priority und	ler 35 U.S.C. §	119(a)-(d) or (f).		
/-	1.⊠ Certified copies of the priority	v documents have bee	n received.	·		
	2. Certified copies of the priority			pplication No		
	3. Copies of the certified copies	of the priority docume	ents have been			
* 0	application from the Internati	·		received		
	See the attached detailed Office acti	on for a list of the certi	ied copies not	received.	•	
Attachmen						
	e of References Cited (PTO-892)	(DTO 048)		Summary (PTO-413) s)/Mail Date		
3) 🔯 Infor	te of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO/SB/08)			nformal Patent Application		
rape	r No(s)/Mail Date <u>3/16/2006</u> .			·		

Art Unit: 2618

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement submitted on 3/16/2006 has been considered by the Examiner and made of record in the application file.

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (1) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a

Art Unit: 2618

nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2618

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ammar et al (US Patent Application Publication #2004/0203528 A1) in view of Motoyama (United States Patent Application Publication #2003/0083034 A1).

Consider claim 1, Ammar et al disclose outdoor unit (abstract, paragraphs 39-49, figure 2) of a reception terminal including a return channel, wherein the return channel (BUC) comprises: a transposition means (read as mixer) that transposes a signal to be transmitted using the signal provided by the local oscillator (figure 2; paragraph 41; The signal is mixed at a mixer with the local oscillator), a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator (paragraph 41; a band pass filter eliminates certain spurious frequencies and signals by appropriate filtering), and a waveguide element having a cover that depends on the frequency selected for the local oscillator (paragraph 11; the housing member further comprises a cover on which the waveguide parts are formed).

Ammar et al fail to disclose a local oscillator providing a signal with a frequency that can be selected from at least two frequencies.

In related art, Motoyama discloses a resultant signal that is mixed by a mixer circuit with a local oscillation signal of 10 GHz from a local oscillator circuit and frequency converted to an IF signal in the 1 GHz band (1450-1700 MHz) (paragraphs 5-7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Motoyama into the teachings of

Art Unit: 2618

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Ammar et al to achieve attenuation characteristics being wideband and steep and allowing great attenuation in the reject band.

Consider claim 2, and as applied to claim 1 above, Ammar et al, as modified by Motoyama, disclose the claimed invention wherein the waveguide cover transforms the waveguide into a band rejector filter that rejects a bandwidth corresponding to a leak of the transposition frequency in the wideband. (Motoyama: figure 6, 8-9; paragraphs 13, 27, 30 and 34)

Consider claim 3, and as applied to claim 1 above, Ammar et al, as modified by Motoyama, disclose the claimed invention wherein the cover is either a flat cover, or a cover including slot-coupled resonant cavities. (Ammar et al: paragraph 90)

Consider claim 4, and as applied to claim 1 above, Ammar et al, as modified by Motoyama, disclose the claimed invention wherein the waveguide comprises resonant cavities coupled by slots, and in that the cover is either a flat cover, or a cover comprising elements that electrically plug the slots. (Ammar et al: paragraph 11)

Consider claim 5, and as applied to claim 1 above, Ammar et al, as modified by Motoyama, disclose the claimed invention wherein the local oscillator comprises means for selecting the oscillation frequency. (Motoyama: figures 8-9; paragraphs 4-7)

Art Unit: 2618

Consider claim 6, and as applied to claim 5 above, Ammar et al, as modified by Motoyama, disclose the claimed invention wherein the means for selecting the oscillation frequency is either a manual switch or a command from an indoor unit or terminal.

Page 6

(Motoyama: figures 8-9; paragraphs 4-7)

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

Art Unit: 2618

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Edan Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Bobbak Safaipour

B.S./bs

March 12, 2007

MATTHEW ANDERSON
SUPERVISORY PATENT EXAMINER